

Date: Wed, 12 May 93 04:30:16 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #572
To: Info-Hams

Info-Hams Digest Wed, 12 May 93 Volume 93 : Issue 572

Today's Topics:

 AM Modulation
 Call for opinions: 9913 vs. CQ-FLEXI
 Daily Solar Geophysical Data Broadcast for 11 May
 FX-146 Ramsey VHF Kit.
 KEPLERIAN BULLETIN 18 ARLK018
 Motorola MT-2000
 Need for foul language?
 SPECIAL BULLETIN 7 ARLX007
 SPECIAL BULLETIN 8 ARLX008
 Thai Ham Informations
 What is circular polarization?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 10 May 1993 19:46:46 GMT
From: saimiri.primite.wisc.edu!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcs!
wayne@ames.arpa
Subject: AM Modulation
To: info-hams@ucsd.edu

jbromley@joshua.intel.com (James Bromley~) writes in part:

> Plate modulation has the advantage of high efficiency. Period.

A key point. The final (rf) amp can deliver only so much total power and
still stay within its ratings. An early edition of The Radio Amateur's

Handbook (ARRL) cites efficiencies of 30% to 35% for control grid modulation, and 65% to 75% for plate modulation. This sounds right -- the aforementioned AM bootleggers could get considerably more unmodulated carrier power with plate modulation, subject to the caveat of not exceeding tube ratings.

> Control-grid modulation, screen-grid modulation, suppressor-grid modulation
> and cathode modulation are *all* high-level modulation methods when
> applied to the final amplifier. As is plate-modulation when so applied.
> The key consideration is that the modulated stage has no linearity
> requirements imposed upon it.

Some of the old rf power tetrodes were notoriously nonlinear when strictly plate modulated. The trick was to use a combination of plate and screen modulation.

Private e-mail to the original poster, jchappel@sander.lockheed.com (Joel Chappell) bounced, but he mused on how many ex-AM-bootleggers are around. Quite a few, I expect.

Wayne
KD0EA
wayne@fc.hp.com

Date: 12 May 93 04:58:11 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
zaphod.mps.ohio-state.edu!sol.ctr.columbia.edu!news.kei.com!ddsw1!indep1!
clifto@network.UCSD.EDU
Subject: Call for opinions: 9913 vs. CQ-FLEXI
To: info-hams@ucsd.edu

In article <1993May5.135506.23027@ryn.mro4.dec.com> taber@cimfie.enet.dec.com (PStJTT) writes:

>
>In article <1993May4.175338.67212@cc.usu.edu>, slp9m@cc.usu.edu writes..
>> So, now the question for the experienced - is the extra 14 cents per
>>foot worth the added flexibility (and any other advantage the Certified Quality
>>product may hold over Belden)?
>
>Wrong question. The question you should be asking is: "is 9913 worth
>the extra N-cents per foot for an HF application?" The generally
>accepted answer to that is "no."
>
>9913 has a number of problems -- it's big, it's inflexible, its air
>dielectroc is subject to moisture problems. The list goes on.

I have here a good amount of coax marked "Certified Quality RG 213/U MIL Type". Recommended it to a friend, as it came from a well-regarded antenna dealer in the area and wasn't too expensive. Had to troubleshoot his installation, expecting to find he installed his PL-259s wrong or something. Ended up cutting the stuff into sections and found that about 20' of the 100' he bought was dead shorted; the extruding machine had misguided the center conductor or something, and all the foam insulation was on one side of the center conductor, pushing it firmly against the braid.

If this is the stuff he's thinking of buying, I'd take big and inflexible and hygroscopic any day. When it comes to it, by the time I replace this junk coax, the 100' I end up with will have cost me about what inexpensive Heliac (if there is such a thing) would have cost. (I'm sure the dealer would have replaced the bad 100'... with more of the same junk.)

--

```
+-----+
|  Cliff Sharp  |      clifto@indep1.chi.il.us   OR  clifto@indep1.uucp   |
|   WA9PDM     |                        Use whichever one works      |
+-----+
```

Date: 12 May 93 06:00:28 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 11 May
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 131, 05/11/93
10.7 FLUX=132.0 90-AVG=127 SSN=132 BKI=1111 0122 BAI=003
BGND-XRAY=B4.0 FLU1=2.7E+05 FLU10=1.3E+04 PKI=2322 2222 PAI=008
BOU-DEV=006,007,008,007,004,008,010,014 DEV-AVG=008 NT SWF=00:000
XRAY-MAX= C2.1 @ 2207UT XRAY-MIN= B3.6 @ 1656UT XRAY-AVG= B6.2
NEUTN-MAX= +002% @ 1655UT NEUTN-MIN= -003% @ 2350UT NEUTN-AVG= -0.7%
PCA-MAX= +0.1DB @ 2235UT PCA-MIN= -0.3DB @ 2325UT PCA-AVG= -0.0DB
BOUTF-MAX=55396NT @ 1238UT BOUTF-MIN=55377NT @ 1731UT BOUTF-AVG=55388NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+000,+000,+000
GOES6-MAX=P:+118NT@ 1525UT GOES6-MIN=N:-091NT@ 0303UT G6-AVG=+098,-017,-056
FLUXFCST=STD:135,135,135;SESC:135,135,135 BAI/PAI-FCST=005,005,010/010,010,020
KFCST=2213 3112 2213 3112 27DAY-AP=021,029 27DAY-KP=3554 1233 4555 2244
WARNINGS=*SWF
ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 10 MAY 93 was 59.2.
The Full Kp Indices for 10 MAY 93 are: 6- 7o 6o 6o 5- 2- 3- 4-

KEPLERIAN BULLETIN 18 ARLK018
FROM ARRL HEADQUARTERS
NEWINGTON, CT MAY 1, 1993
TO ALL RADIO AMATEURS

SB KEP ARL ARLK018
ARLK018 KEPLERIAN DATA

THANKS TO NASA, AMSAT AND N3FKV FOR THE FOLLOWING KEPLERIAN DATA.

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

STS-55

1 22640U 93027 A 93120.24999999 0.00044939 12819-3 0 128
2 22640 28.4643 241.8868 0011265 284.7181 109.3644 15.91616537 580

AO-10

1 14129U 83058 B 93118.11475914 -.00000100 99999-4 0 9872
2 14129 27.0715 28.2681 6014912 76.8439 340.0570 2.05881517 46262

RS-10/11

1 18129U 87054 A 93119.88948533 0.00000087 89554-4 0 6060
2 18129 82.9210 274.3052 0013130 89.4383 270.8250 13.72315376293221

UO-11

1 14781U 84021 B 93120.07285750 0.00000409 73773-4 0 4128
2 14781 97.8161 148.5957 0011978 145.4224 214.7778 14.68965367489655

RS-12/13

1 21089U 91007 A 93111.61252696 0.00000083 81623-4 0 3997
2 21089 82.9223 324.0792 0028556 200.3485 159.6531 13.74020349110750

AO-13

1 19216U 88051 B 93116.50909762 -.00000095 99999-4 0 5987
2 19216 57.7760 319.9836 7246452 313.7135 5.4992 2.09722646 5771

UO-14

1 20437U 90005 B 93117.26724026 0.00000134 59939-4 0 7433
2 20437 98.6166 202.1071 0011020 336.6422 23.4258 14.29763909170155

AO-16

1 20439U 90005 D 93115.24007829 0.00000149 65640-4 0 5526
2 20439 98.6221 200.9358 0011321 342.8328 17.2466 14.29823811169879

DO-17

1 20440U 90005 E 93114.18496752 0.00000163 70866-4 0 5541
2 20440 98.6243 200.0920 0011524 344.7427 15.3410 14.29958526169732

WO-18

1 20441U 90005 F 93112.26444196 0.00000190 81457-4 0 5564
2 20441 98.6235 198.2176 0012322 351.1639 8.9324 14.29939397169466

LO-19

1 20442U 90005 G 93113.73915075 0.00000148 64966-4 0 5533

2 20442 98.6244 199.8456 0012552 346.1511 13.9326 14.30028046169687
FO-20
1 20480U 90013 C 93116.63542355 0.00000015 63811-4 0 4443
2 20480 99.0491 342.5753 0540850 203.3160 154.2545 12.83219140150704
AO-21
1 21087U 91006 A 93119.93181948 0.00000085 82656-4 0 7485
2 21087 82.9386 88.5391 0035378 153.6673 206.6280 13.74516476112818
UO-22
1 21575U 91050 B 93119.22007906 0.00000163 62211-4 0 2521
2 21575 98.4760 196.1122 0008332 85.2439 274.9701 14.36816290 93636
KO-23
1 22077U 92052 B 93113.38302387 0.00000000 99999-4 0 996
2 22077 66.0774 78.9316 0007778 206.0375 154.0253 12.86277989 32796
MIR
1 16609U 86017 A 93119.78131709 0.00011583 15499-3 0 431
2 16609 51.6197 102.5833 0000467 172.5073 187.5905 15.58506776411581

KEPLERIAN BULLETINS ARE TRANSMITTED TWICE WEEKLY FROM W1AW.
THE NEXT SCHEDULED TRANSMISSION OF THESE DATA WILL BE TUESDAY,
MAY 4, 1993, AT 2230Z ON BAUDOT, AMTOR AND ASCII.
NNNN

Date: Wed, 12 May 1993 05:16:38 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
darwin.sura.net!news-feed-1.peachnet.edu!concert!samba!usenet@network.UCSD.EDU
Subject: Motorola MT-2000
To: info-hams@ucsd.edu

I'm looking for info on how to program a Motorola MT-2000 HT into the ham
bands. It's a UHF radio, no keypad. The software won't let it go below
450MHz, and I'm wondering if there's a fix for this.

Please email and I'll post a summary.

-ks
KD6RCT

--
The opinions expressed are not necessarily those of the University of
North Carolina at Chapel Hill, the Campus Office for Information
Technology, or the Experimental Bulletin Board Service.
internet: laUNCHpad.unc.edu or 152.2.22.80

Date: 12 May 93 04:47:18 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
sol.ctr.columbia.edu!news.kei.com!ddsw1!indep1!clifto@network.UCSD.EDU
Subject: Need for foul language?
To: info-hams@ucsd.edu

In article <1993May3.231508.11446@nnntp2.cxo.dec.com> little@nuts2u.enet.dec.com
(nuts2u::little) writes:

|>jmaynard@nyx.cs.du.edu (Jay Maynard) writes:

|>

|>>felt for that individual's actions. Nothing carries quite the same force as
|>>saying someone is a ****ing disgrace to ham radio, and that's not because I
|>>lack the vocabulary to express the feeling; rather, it's because everything
|>>else is simply a poor euphemism to hide strong feelings from those who cannot
|>>take them.

|>

|>Nice self contradiction. If you had the vocabulary to express your
|>feelings then everything else wouldn't be a poor euphemism. I can
|>certainly "take" your strong feelings, I just find your manners repugnant.
|>Perhaps to you, cursing shows "strong feelings", to me it's simply being
|>crude.

I object to your constant use of "the" in your sentences. I consider it
to be a vulgar and obscene word. If you had a good vocabulary yourself, you
might be one to complain. Perhaps it shows "strong feelings" to you; it
only shows disrespect to all of us in netland.

[NOTE for humor-impaired individuals: that which I wrote above says in
an ironic way that a word is just a word, only an individual can ascribe
vulgarity or any other attribute to a word. Oversensitivity is a learned
attribute.]

|>Oh yeah, I'll try to take your .sig file to heart and not ascribe your
|>actions to malice.

At least when you're in ad hominem mode, you can avoid irritating and
objectionable language. Try avoiding direct discussion of your objections
and go straight to the insults, so we don't have to put up with potty-mouth
here.

--

```
+-----+
|  Cliff Sharp  |      clifto@indep1.chi.il.us   OR  clifto@indep1.uucp   |
|    WA9PDM    |      Use whichever one works   |
+-----+
```

Date: 12 May 93 06:30:57 GMT

From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!mstar!n8emr!
bulletin@network.UCSD.EDU
Subject: SPECIAL BULLETIN 7 ARLX007
To: info-hams@ucsd.edu

=====
| Automatic relayed from packet radio via |
| N8EMR's Ham BBS, 614-895-2553 |
=====

ZCZC AX16
QST DE W1AW
SPECIAL BULLETIN 7 ARLX007
FROM ARRL HEADQUARTERS
NEWINGTON CT MAY 11, 1993
TO ALL RADIO AMATEURS

ARMED FORCES DAY

ARMED FORCES DAY IS MAY 15. FOR DETAILS SEE MAY QST, PAGE 128.
NNNN

Date: 12 May 93 06:30:57 GMT
From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!mstar!n8emr!
bulletin@network.UCSD.EDU
Subject: SPECIAL BULLETIN 8 ARLX008
To: info-hams@ucsd.edu

=====
| Automatic relayed from packet radio via |
| N8EMR's Ham BBS, 614-895-2553 |
=====

ZCZC AX17
QST DE W1AW
SPECIAL BULLETIN 8 ARLX008
FROM ARRL HEADQUARTERS
NEWINGTON CT MAY 11, 1993
TO ALL RADIO AMATEURS

BOY SCOUT JAMBOREE

ORGANIZERS OF THIS YEAR'S NATIONAL BOY SCOUT JAMBOREE ARE LOOKING
FOR LICENSED AMATEURS WHO ARE SCOUTS TO HELP STAFF THE RADIO MERIT
BADGE TENT. THE EVENT WILL BE AUGUST 2 TO 9, IN FREDERICKSBURG,
VIRGINIA. IF YOU'RE INTERESTED, CONTACT RAY MOYER, WD8JKV, AT

214-580-2595.

NNNN

Date: 13 May 93 09:08:12 GMT
From: news-mail-gateway@ucsd.edu
Subject: Thai Ham Informations
To: info-hams@ucsd.edu

Dear Netters,

I'm very glad to be read the informations of HAMs in the Stateside. I'm a Thai born citizen, living in Bangkok, capital city of Thailand I held an Intermediate Class license in Thai. My homecall is HS1IZEB. Also, the the Technician No Code as N3JTV. You can reach to my address or any informations needed can be posted to me directly through my EMail address. (jade@nwg.nectec.or.th)

FYI, Thailand has 3 class of license. They are..

1. Novice Class, which only allow the uses of 2m FM (144-146Mhz). We're trying to conduct the use of SSB and CW to the class as well. Note that we doesn't allow repeater, DTMF, CTCSS operations yet..
2. Intermediate Class, which allow us to use 2m FM, CW. Not SSB. Packet Radio or any other digital mode are not allowed to operate yet. But we're trying our best for them Digital to go to NOS.. And HF, 10, 15, 20, 40, 80 bands are allowed. SSB and CW. With maximum power of 150 watts. No Digital mode as well.
3. Advanced Class, which is not being held yet in Thailand. We can't expect anything on this class at the moment. No previledges assigned.

I just got the informations this newsgroup a few days ago. And decided to write any messages on the advancement of the Thai hams society. We're trying our best to work on Satellies and Packet Radio. Since the PTD (Post Telegraph Department) already release the band-plan of the 2m frequency. With EME channels, CW channels, Repeater channels, Satellite channels, etc. But we're not allowed yet to use them.. 8*(

I will try to post regular on the Thai's Hams news to the group more frequent.

--

+-----+-----+
| Jade V. Thaveekij | Internet: jade@nwg.nectec.or.th |

HS1ZEB, N3JTV		Home: 62/296 Soi Senanikom 1, Ladphrao	
+-----+		: Bangkok 10230, Thailand	
Off: Jade V. Thaveekij, CQ International Publishing Ltd.			
: 17/749 Soi Senanikom 1, Ladphrao, Bangkok 10230, Thailand			
Phone: 662-570-5335, Fax: 662-570-5379, Home: 662-578-2533			
+-----+			
Thai CQ Magazine's Editorial Staff & Computer Department			
My word doesn't show the opinion of CQ Magazine (Thai) or Thai			
HAM community. Usually on 21.250-21.350Mhz SSB at 13:00-14:00z			
+-----+			

Date: Mon, 10 May 1993 19:52:41 GMT
 From: saimiri.primite.wisc.edu!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcs!
 myers@ames.arpa
 Subject: What is circular polarization?
 To: info-hams@ucsd.edu

In rec.radio.amateur.misc, wejones@cbda7.apgea.army.mil (Bill Jones) writes:

> Related to the question of what is circular polarization is a question
 > that I have seen both answers suggested as being correct, ie:
 > Does the wave-front polarity actually rotate as it travels through space,
 > or is it just that the polarity at the source rotates with time (and the
 > polarity at any distant point in space), but any individual wave-front
 > actually retains its polarity as it travels through space?
 > Intuitively, it would seem that the latter of the two descriptions is
 > correct

It is.

Bob Myers	KC0EW	Hewlett-Packard Co.	Opinions expressed here are not
		Systems Technology Div.	those of my employer or any other
myers@fc.hp.com		Fort Collins, Colorado	sentient life-form on this planet.

Date: Wed, 12 May 1993 06:15:31 GMT
 From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
 noc.near.net!nic.umass.edu!news.mtholyoke.edu!news.unomaha.edu!cwis!
 pschleck@network.UCSD.EDU
 To: info-hams@ucsd.edu

References <C6tEtz.AHC@cbnewsm.cb.att.com>, <sr9v1s#@dixie.com>,
 <C6v97I.BtL@cbnewsm.cb.att.com>tholyok
 Subject : Re: 200 watt CB amp

jeffj@cbnewsm.cb.att.com (jeffrey.n.jones) writes:

>In article <sr9v1s#@dixie.com> jgd@dixie.com (John De Armond) writes:

>>jeffj@cbnewsm.cb.att.com (jeffrey.n.jones) writes:

>>

>>>In article <fp6v_4b@dixie.com> jgd@dixie.com (John De Armond) writes:

>>>>It is really good to see that all the anal retentive wannabe cops could

>>>>free their hands from masturbating over the USC and Part 95 long enough to

>>>>type this stuff in. I'm sure society will be better off for it. Must

>>>>be frustrating, though, not to be able to just draw your net.gun and

>>>>blow away this awful fellow right on the spot.

>>

>>>Just when you thought it was safe, HEEEESSSS BAAAACCCCKKK!

>>

>>Yeah and doesn't it just PISS YOU OFF that you can't do a thing about it?

>No, not really, I read anything you post with great amusement. Kinda like
>the morning funnies.

>73!

>Jeff

Indeed!

Although I would have to say that the recent writing of a one Rev. Michael P. Deignan (kd1hz@anomaly.sbs.com) makes even the most demented postings of a certain nameless net personality look like the oversexed ravings of a freshman who found a terminal logged in to someone else's account. Just like the widespread suspicion that Madelyn Murray O'Hare was a fundamentalist plant designed to discredit atheism, I have to suspect that the Reverend is a similar plant of the CIA/FBI/MotorolaCellPhone/Whatever designed to discredit amateur radio. It's the only logical explanation.

Incidentally, regarding the dethroned net personality, I have an archive of interesting sparring between this individual and the late, great, Larry Lippman in sci.electronics. It's rather long, although I could be persuaded to post or E-mail it. Plenty of "pay no attention to that man behind the curtain" to be sure...

Followups to alt.flame where they should smoulder quite nicely alongside Rosebud the sled...

73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu

Date: Wed, 12 May 1993 04:37:10 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
darwin.sura.net!sgiblab!news.kpc.com!kpc!sleat@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1soci7\$mqq@transfer.stratus.com>, <1sojqb\$bvb@chnews.intel.com>,
<C6vH38.4L7@squam.banyan.com>t
Subject : Re: How's a Honda Accord w/50W VHF?

In article <C6vH38.4L7@squam.banyan.com>, dts@banyan.com (Daniel Senie) writes:
|> I'll answer this one... We disconnected the radio in Faith's Honda from the car
|> power system all together and powered it from a separate battery in the back
|> seat. The noise problem persisted. The noise is DEFINITELY not entering the
radio
|> from the power leads. It's coming down the antenna feedline.
|>
|> Another interesting datapoint: our other vehicle is a Nissan Pathfinder. Same
|> radio (we each have FT-5200's in our mobiles). The pathfinder does not have
|> trouble with noise from itself, but if I have it next to Faith's Honda and the
|> honda is running, the same noise she gets in her radio comes into my radio. I
|> have noticed this out on the highway as well, when passing SOME other hondas.

Another sneaky little noise source to look out for is, believe it or not,
the dimmer for the dashboard lights. I ran into this on a '77 Accord with
some audio equipment. The dimmer was a switching circuit, and probably didn't
have much in the way of RFI suppression. A fast edge with a 12-volt swing
and lots of wires to radiate from can get into everything. Seems to me I've
observed this on a recent model Prelude, too. The thing that made this
source strikingly obvious was that the pitch of the whine was directly
adjustable with the dimmer knob.

Of course, this would only show up with the lights on, and the correlation
with engine speed is less pronounced than in the case of alternator noise.
(I think there was still some correlation because of variations in the input
voltage with engine speed.)

I don't remember if you stated any of the following earlier in this thread,
but:

1. Is the frequency of the noise in fact directly correlated
with engine speed?
2. Does the frequency or amplitude of the noise depend on other
loads (lights, fans, etc.) beyond effects due to engine speed?

I think you should be able to run the engine just fine for a little bit

with the alternator drive belt disconnected. This should answer the question once and for all whether the alternator is or is not the source.

Michael Sleator (KD6VBQ)	Voice:	408-748-6339
Kubota Pacific Computer	FAX:	408-748-6301
2630 Walsh Ave.	internet:	sleat@kpc.com
Santa Clara, CA 95051	uucp:	...!uunet!kpc!sleat

End of Info-Hams Digest V93 #572
